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AN - EMB-1990186475

TI - The in vitro antifungal activity of ketoconazole, zinc pythione, and selenium sulfide against Pityrosporum and their efficacy as a shampoo in the treatment of experimental pityrosporiasis in guinea pigs

AB - The fungistatic and fungicidal activity of ketoconazole, zinc pythione, and selenium sulfide against Pityrosporum, a yeast thought to play a pathogenic role in seborrheic dermatitis and dandruff, was assessed in Dixon broth for pityrosporum ovale and Sabouraud broth for Pityrosporum pachydermatis. Ketoconazole inhibited growth at concentrations ranging from 0.001 to 1 [mu]g/ml. For zinc pythione and selenium sulfide higher concentrations were needed. In a guinea pig model the efficacy of treatment with four shampoos (Nizoral [Janssen], EDS Zinc [Schering], Zinkan [Lederle], and Selsun [Abbott]) was compared. The animals were inoculated for 7 consecutive days on intact skin. The lesions were scored for erythema, folliculitis, and hyperkeratosis 24 hours after the last inoculation and after treatment. Final evaluations were made 13 days after infection (10 days after last shampoo application). Treatment with undiluted and diluted (1:10) shampoos showed consistently superior clinical and mycologic results for Nizoral shampoo. None of the shampoos produced side effects.

IW - mycosis(#): drug therapy; pityrosporum(#); guinea pig; fungus; animal experiment; nonhuman; topical drug administration; article; priority journal

- shampoo; ketoconazole(#): drug therapy, drug comparison, drug dose, pharmacology; pythione zinc(#): drug therapy, drug dose, drug comparison, pharmacology; selenium sulfide(#): drug dose, drug comparison, drug therapy, pharmacology; eds zinc; zinkan; unclassified drug

AW - nizoral; eds zinc; zinkan; selsun

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